

Framework agreements with industry:

Evonik Industrie AG Location Krefeld:

Evonik Stockhausen GmbH

- Solvay Chemicals GmbH Location Rheinberg

Location Bernburg

- Kemira Germany GmbH Rheinberg

- Bayer Chemiepark Uerdingen

- Huntsman P+A Germany GmbH (former Sachtleben Pigment GmbH)

Lanxess Deutschland GmbH

- Bayer AG

Classen Fiberboard GmbH

Overview of construction projects we've processed presenting details of services provided, chronologically arranged:

Construction costs

Completion

Standardkessel GmbH E4T DOW Terneuzen

We were commissioned by Standardkessel with the structural calculation as well as the creation of the steel construction overviews and anchor drawings for a newly planned primary fuel boiler plant for e.on Power Plants Belgium bvba company.

Creation of statical calculations for the sub projects:

- support frame with drum canopy and
- pump room
- pipe bridge
- roofing for the cooling basin
- walkways on the switchboards and
- pipe support

Based on the statical calculations the steelwork overviews and anchor drawings were created.

Contact: Mr. Wiegand





Completion

Kurt Schuhmacher PINA S.A. Cunencs - Particle Board Line

The company Kurt Schuhmacher from Neukirchen-Vluyn commissioned us to coordinate the planning-, engineering and design work for a to be supplied steelwork framework.

Creation of the structural engineering of the frameworks

- dryer
- sieving
- sifting
- transportation to the dosing silo
- forming station

as well as steel work workshop drawings for all areas

Contact: Mr. Hohlfeld 1.2 m € 2017

Classen Fiberboard GmbH Fiberboard GmbH - Fiberboard plant

Analisys of the possible feasibility of additional buildings to the plant installation in the areas washers, difibricator, dryer and storage of glue and polyurea.

Planning pre-concepts and fee determination for these buildings.

Compilation of budgetary costs for the total investment.

Participating in the examination of granting a permit.

Contact: Mr. Hennig 2017

Ingenieurbüro Dannenberg AG Norbord Europe Ltd. - New OSB Production Line – Inverness

The plant in Inverness was expanded by a production line for OSB boards.

We were commissioned to take over the coordination and compilation of plant and buildings. We were responsible for all plant frameworks and foundations on site. We especially did all the structural engineering for the area Holtec (wood area).

Our services included:

- coordination
- 3D modeling and collision check.
- Checking and approval of the plant installation
- Checking and coordinating of building services
- structural engineering
- infrastructure, cables, thermal oil, transportation routes
- steel structure workshop drawings
- reinforcement drawings for concrete parts
- outdoor facility planning of roads and drainage

Contact: Mr. McMeekin 130 m € 2017

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Completion

Standardkessel Baumgarte GmbH - Boiler House Rambervillers

For an OSB plant from company EGGER Panneaux & Decors in Rambervillers, France the new boiler house was supplied by Standardkessel. This energy plant has to heat up steam as well as fuel gas and thermal oil.

We produced for Standardkessel the structural engineering, primarily the static calculation, steel construction overviews and proof of connections.

Contact: Mr. Wiegand

2017

Standardkessel Baumgarte GmbH – Boiler House Palm Paper - King's Lynn (England)

Company Standardkessel supplied a new boiler house for a paper factory in King's Lynn (England). This energy plant has to heat up steam as well as fuel gas and thermal oil.

We produced for Standardkessel the structural engineering, primarily the static calculation, steel construction overviews and anchor drawings.

Contact: Mr. Varol

2017

Energiegenossenschaft Rhein-Ruhr Erection of an administration building

A new one-storey administration building is going to be erected at the location in Dinslaken. It is designed according to the latest building service installations.

Construction supervision

Contact: Mr. Wegener

1 m€

2017

Hoffmann Groep Dismantling collery docks, Emscher-Lippe-Canal

The existing port of the RAG near Datteln is going to be dismantled and integrated in the canal. In this process the flanking sheet piles are covered with new sheet piles and are mounted.

Static calculations, execution details

Contact: Mr. Dr. Maas

2 m€



Completion

Wirtschaftsbetriebe Duisburg GmbH Kueppersmuehle loading facility 1

At the inland port in Duisburg a new administration and museum area was developed. There are old historic crane systems along the old harbour basin. Static documents are missing for some of them. Under consideration of the newest standards one crane system was completely acquired and all necessary load-bearing capacity analyses were regenerated.

Static calculations, assembly drawings, structural survey

Contact: Mr. Radetzki 2016

Interspan Faipari Erection of an OSB-Plant

A production plant is going to be erected at the location Interspan in Hungary. The plant belongs to the Swiss Krono group. In the past chip boards were produced at this location. The new plant had to be integrated in the already existing infrastructure.

Budget costs determination, update investment costs, design planning, develop structural concepts, pre-dimensioning buildings, prepare approval procedures

Contact: Mr. Dr. Matthias Iredi 120 m € 2016

IEM Foerdertechnik GmbH Calculating support loads for a conveyor bridge

For a new conveyor bridge that is to be constructed in Iran, the IEM Foerdertechnik GmbH Company asked us to calculate the support loads of the conveyor bridge and according to this design the construction.

Static calculations and determination of the support loads according to the local load details wind and snow in Iran.

Contact: Mr. Kastl 0.28 m € 2014





Completion

ECOPLANT Filtrations GmbH ELO-Filter-Framework for a biomass power plant, Kauai

As part of the biomass power plant that is to be constructed for the Standardkessel Baumgarte company on the Hawaiian island of Kauai, the ECOPLANT Filtrations GmbH company assigned us to create auditable static calculations according to AISC imd IBC2009 for the supporting framework, the side stage, the foundation anchor bolts and the stair tower of the electric filter. Furthermore we prepared the steel construction drawings.

Contact: Mr. Prochnow 0.95 m € 2014

Logport Duisburg – Building LMN Erection of three logistics halls with administration and social built-ins

For a new tenant three logistics halls including administration and social areas were built. They are designed to hold a 6,000m² space for dangerous goods, 10,000m² of shelf space and 10,000m² Crossdock-space. This complex also holds the administration and social space with an area of about 1,200m². All in all about 100 new jobs were created.

Detailed and approved final design, co-ordination of the professionals for: building services, sprinkler technology and outdoor facilities; co-ordination of the precast concrete unit concept, static calculations of the cast-in-place components, formwork and reinforcement drawings

Contact: Mr. Degheili (Duisport) 15 m € 2013

Lausitzer Stahlbau Ruhland GmbH & Co. KG BHKW-Steel structure on Kauai / Hawaii

We statically calculated the kettle scaffolding in Kauai within the scope of the order by Standardkessel. The Lausitzer Stahlbau was instructed to manufacture the steel construction (approx. 350t in containers packed and shipped).

We provided the workshop drawings, stack lists and the assembly concept.

Contact: Mr. Seidl 1.25 m € 2014





Completion

Walter Hellmich GmbH Deutsche Post Real Estate Germany GmbH Region West Extension of the logistics center Greven

In 2013 the central distribution centre was extended for the Deutsche Post Real Estate Germany GmbH and their new tenant HSE24, in Greven - Reckenfeld. The extension project consisted of sorting facilities and high rack warehouse systems as well as the administration and social areas.

Detailed and approved final design, co-ordination of the professionals for: fire protection, building services, outdoor facilities; co-ordination of the precast concrete unit concept and the cast-in-place foundations

Contact: Mr. Kasperidus

22 m€

2013

Walter Hellmich GmbH Erection of package distribution centers

MechZB96 in Essen

In 2013 a mechanical delivery base (MechZB96) was built in Essen-Bergeborbeck for the Deutsche Post DHL to deliver packages for the Essen area. Next to the base building an office and social building was erected for about 110 employees.

Our job was the design planning, building application planning, fabrication design, static design and calculations, formwork and reinforcement drawings.

Contact: Mr. Kasperidus

15 m€

2014

MechZB60 in Wuerselen

In 2013 a mechanical delivery base (MechZB60) was built at the highway intersection Wuerselen (A4 / A44) for the Deutsche Post DHL to deliver packages for the Aachen area. Next to the base building an office and social building was erected for about 70 employees.

Our job was the design planning, building application planning, fabrication design, static design and calculations, formwork and reinforcement drawings.

Contact: Mr. Kasperidus

10 m€





Completion

MechZB60 in Hamm - Uentrop

In 2013 a mechanical delivery base (MechZB60) was built for the Deutsche Post DHL to deliver packages for the Hamm - Uentrop area. Next to the base building an office and social building was erected for about 70 employees.

Our job was the design planning, building application planning, fabrication design, static design and calculations, formwork and reinforcement drawings.

Contact: Mr. Kasperidus

11 m€

2013

MechZB48 in Dinslaken

In 2012 a mechanical delivery base (MechZB48) was built For the Deutsche Post DHL to deliver packages for the Dinslaken / Oberhausen area. Next to the base building an office and social building was erected for about 70 employees.

Our job was the design planning, building application planning, fabrication design, static design and calculations, formwork and reinforcement drawings.

Contact: Mr. Kasperidus

10 m€

2013

Logport Duisburg – Building IJK Erection of three logistics halls with administration and social built-ins

For a new tenant three logistics halls were built with administration and social built-ins. They are designed to hold a 3,200m² space for dangerous goods, 17,000m² of shelf space and 1,300m² for administration and social areas. Approximately 50 new jobs were created.

Detailed and approved final design, co-ordination of the professionals for: building services, sprinkler technology and outdoor facilities; co-ordination of the precast concrete unit concept

Contact: Mr. Degheili (Duisport)

14 m€





Completion

Standardkessel GmbH – GET Kauai Bio CHP plant, Kauai / Hawaii - A30010

A biomass combustion is going to be erected on the Hawaiian isle of Kauai. The thermal discharge is going to be convertet into electricity and used as heat.

Structural and fabrication designs: structural drawings, static calculations considering American standards, fabrication designs of the steel construction for the Lausitz steel construction

Contact: Mr. Joerg Klasen 65 m € 2015

Kloeckner Stahl- und Metallhandel Erection of a warehouse and open-air storage space in Duisburg

Extension of the existing warehouses by two more warehouses with overhead cranes and open-air storage space. Also the rail connection was extended.

Detailed and approved final design, static calculations, formwork and reinforcement drawings

Contact: Mr. Salomon 2 m € 2011

Walter Hellmich GmbH – Kuehne + Nagel (AG & Co.) KG Expansion of the logistics centre by office and social buildings (3th and 4th construction phase)

The existing facility of Kuehne + Nagel (AG +Co.) KG in the Logport commercial area in Duisburg has been extended by seven new warehouses with office and social buildings and 72 truckloading bays between 2010 and 2011. The 2-storey office buildings are located in front of the warehouses. The concrete slabs are designed in consideration of fire water retention according to WHG codes. The property area is about 65,000m², the gross floor area 40,400m² and the gross building volume 538,400m³.

Our services included fabrication design and drawings, co-ordinating all technical and mechanical planners for: fire-protection, building services, building physics and consulting; co-ordination of the design and process of the prefabricated concrete structure.

Contact: Mr. Kasperidus 24 m € 2014





Completion

Standardkessel GmbH OSB Radauti – kettle scaffolding

For an OSB-factory of the Egger group in Romania the energy facilities were delivered by Standardkessel. The energy facilities heat up hot gas, thermal oil and steam.

We provided the structural design with Standardkessel, the static proofs and the steel construction planning.

Contact: Mr. Klasen 2.3 m € 2013

Bauverein Rheinhausen eG 5 town houses in Duisburg-Rheinhausen, Krefelder Strasse

In Duisburg-Rheinhausen 5 blocks of flats without barriers, appropriate for age were established. These dispose of lift arrangements and partially integrated underground parkings.

We provided the static calculations, accompanied the developer in the finding of optional and economic solutions and provided all implementation documents.

Contact: Mr. Seemann 4.2 m € 2011

Krono-Ukraine Ltd. Restructuring Kamianka Buska to an OSB production

Reconstruction of an existing chipboard production to an OSB production.

General planning: co-ordination of arrangement drawings, 3D-concepts, co-ordination of the application process, static calculations in German and Russian under consideration of Ukrain standards, fabrication drawings for steel and concrete structures, contract specifications, consulting in awarding of contracts, quality control and inspections

Contact: Mr. Dr. Matthias Iredi 45 m € 2011



Completion

IKEA Industry Group Polska Sp.z.o.o. East II HDF-Plant in Orla, Poland

Erection of a HDF-Plant in a former agricultural area.

General plannig: revision of the existing application process, coordination of the construction schedule, create a 3D model, coordinating the machine installation and construction schedule, static calculations in German / Polish according to European Norm, fabrication drawings for steel and concrete structures, specifications for tender process, consulting in awarding of contracts, quality control and inspections

Contact: Mr. Achim Iredi 140 m € 2011

Alstom Power Systems GmbH – EnBw Kraftwerke AG Stuttgart Rheinhafen steam power station, Karlsruhe Block 8 (RDK 8)

The steam power station was extended by a block (# 8). It is a kettle with 800 kWh of thermal performance.

Our work for Alstom Stuttgart included the static proof of three platforms (58m to 75m).

Our part of the complete investment 0.7 m € 2011

Dieffenbacher GmbH – Rauch GmbH & Co. KG Erection of an energy facility and dryer for a chipboard production

On the plant of the Rauch company the chipboard production was modernised and the capacity was raised. In addition a new energy arrangement, a drum dryer and an exhaust air cleaning was required.

We provided the static calculations for the steel constructions and the steel construction workshop drawings necessary for manufacturing.

Contact: Mr. Alexander Koelber 1.2 m € 2010



Completion

Eiffel Deutschland Stahltechnologie GmbH Renewal of the side rails – Kardinal Frings Bridge (BW 103)

The Duesseldorf rhine bridge has running streetcar rails in the middle. The rails main beams had to be renewed.

Preparation of the implementation concept, followed by static calculations and steel construction workshop drawings with assembly instructions and coating system

Contact: Mr. Rings 0.9 m € 2010

Stadtwerke Essen AG Examination of the stability of the harbour basins east side supporting wall for a new slewing crane

Because of the reconstruction of a port crane, the sheet pile wall of the harbour basin had to be checked statically. The calculations were to be done on the basis of the current European Norms.

Inventory, static proofs

Contact: Mr. Ralf Fink 2009

ThyssenKrupp Nirosta GmbH Reconstruction of a weigh-bridge for rail cars in Benrath, Germany

The existing girders of a weigh-bridge, built in 1955 were worn-out and corroded so they had to be replaced. The new girders, connected to the existing scale apparatus had to be designed under consideration of the current standards. Therefor they had to be constructed with steel parts currently available according to code.

Static calculations, proof of stability during operation, steel construction drawings, co-ordination of the assembly concept, co-ordination with all companies involved

Contact: Mr. Rassow (TKN Benrath) 0.13 m € October 2008





Completion

Pfleiderer Novgorod Erection of a production plant for wood-fibreboards in Novgorod, Russia

Pfleiderer, a manufacturer of wood products decided to erect a production plant for fibreboards in Novgorod, Russia. The client already operates a production plant for chipboards at this site. The Dieffenbacher company from Eppingen in Germany is in charge as general contractor for all machinery and technical equipment. Pfleiderer awarded different civil engineering offices with the planning of various building units. Our office received contracts for planning the drying plant, the building for glue metering and fibre processing, the structures for the electrostatic filters and the power plant building, as well as the foundations for the pipe bridges.

Our performances included general and structural design, coordinating the mechanical engineers, static calculations, formwork and reinforcement drawings. Further we continue construction controlling on behalf of the client (Pfleiderer).

Contact: Mr. Eifert 30 m € (Constr.) 2010

Classen Fiberboard GmbH Erection of a production plant for wood fibreboards in Baruth, Germany

Classen Industries, a manufacturer for laminate flooring, decided to built a plant on site in Baruth, to produce the fibreboard used in laminate flooring. The fibreboard production plant consists of multiple different units, buildings and structures.

Design of the steel and concrete structures and buildings, manage tendering process, participating in allocations of contracts, construction supervision, accounting control

Contact: Mr. Hennig 38 m € (Constr.) end 2008





Completion

Arcelor Mittal – Bremen Replacement of the elevating conveyor belt at blast furnace #1

The existing elevating conveyor belt, which transports ore and coke to the blast furnace, had reached its maximum load change. Therefore it had to be replaced. The new conveyor system, a welded steel structure, was prefabricated in four sections at Hoffmeier GmbH in Hamm, Germany. The single sections were delivered to Bremen by ship, where they had been assembled on site. The conveyor structure is supported in two points. It's length measures 85m, it's width 6.50m and it's structural height is 2.20m.

Static proof of the field connections under consideration of endurance strength, steel construction drawings

Contact: Mr. Vogg (building department)

5.3 m €

August 2008

RED PARCEL Grundstuecks GmbH & Co. KG Erection of a package sorting centre with an office and social building

A new building was erected for the main distribution centre. It had to meet the requirements of the modern storage technology and the sorting plant with its automated conveyor. Furthermore enough entry and exit ways as well as buffer areas were needed. If necessary 15 more extension stages are possible.

Preliminary design, building planning, planning outdoor facilities and traffic routes, co-ordination with all companies involved, building application documents, mass and cost calculations, static calculations, emergency escape route and evacuation drawings, sound dampening and thermal protection proof, connection planning and pipe dimensioning, energy requirement determination

Contact: Mr. Kasperidus 24 m € 2008





Completion

Kuehne + Nagel

Extension of the logistics centre with warehouses at Logport business park in Duisburg, Germany (2nd construction phase)

The existing area of the logistics centre was extended by 25,000m². The expansion includes four warehouse sections with 42 truck-loading bridges. There are three two-storey office buildings attached to the end of each particular warehouse section.

Construction planning for the general contractor, Hellmich Baugesellschaft; co-ordinating the precast concrete concept, static calculations for the steel- and cast-in-place concrete structures, formwork and reinforcement drawings and steel construction drawings

Contact: Mr. Jaeger (Kuehne + Nagel)

18 m€

May 2008

TKS – ThyssenKrup Steel, plant Bochum Extension of the wide strip mill by a preheating oven

In the Bochum plant the existing wide strip mill, to mill sheet metal coils, was extended by a preheating oven. Therefore the double-span hall construction had to be extended by 2 areas (30m). It contains crane girder for bridge cranes that hold up to 260t hoisting capacity. The existing lot crane girder had to be striped down accordingly. The crane girder have supporting widths between 15m and 30m.

General design of the hall and crane track constructions, co-ordination with the client, static calculations with proof of stability during operation, steel construction drawings, facades planning

Contact: Mr. Biekehoer 3.4 m € (Constr.) early 2008

Baumgarte Boiler Systems GmbH MHKW Frankfurt Nordweststadt, Germany

The existing waste incineration plant was modernized with two new boiler systems. In 2006 in a second phase, two more boilers were added.

Planning supervision for Baumgarte, co-ordination of mechanical and structural layout, adaptation and co-ordination of the static calculations with the steel construction drawings

Contact: Mr. Ralf Senff-Wollenberg

12.5 m€

end 2007



Completion

Container Port Hamburg, Germany Conversion of a container handling gantry crane

The clearance height of the container crane portal needed to be raised from 14m to 17.50m. Therefore the crane had to be reconstructed. A new frame structure was assembled on site and installed before the old support frame was removed. The crane has a total height of 70m, the boom reaches out 46m and it has a max. lifting capacity of 60t. The crane can be moved with it's 20 wheel sets, the track gauge measures 18m.

Steel construction drawings, assembly concept

1.35 m €

2007

DTS Systemoberflaechen GmbH Extension of the production area

The existing production was extended threefold of the already existing volume. This includes the production areas, storage and shipping halls, as well as the office and social areas.

General planning: design, application process, construction drawings, allocation of contracts, construction supervision

Contact: Mr. Tenorth 2.5 m € 2007

Baumgarte Boiler Systems GmbH Erection of a wast disposal plant in Moskau, Russia

The Baumgarte company delivered the boiler equipment, including the structural design for the waste disposal plant in Moskau, built by EVN (Energieversorgung Niederoesterreich), Austria. For structural and economic reasons, the boiler house had to be attached to the main structure of the incinerator. Further a turbine chamber had to be included in the building.

Static calculations to auditable in German and Russian, steel construction drawings for Stahlbau Unger, Austria

Contact: Mr. Joerg Boewe (Baumgarte Boiler Systems GmbH), Mr. Reinhard Szekely (Stahlbau Unger) 4.6 m€

end 2006





Completion

Evonik Stockhausen GmbH Expansion and reconstruction of the production unit # P7

The existing production building built in the 1940s had to be raised from 12m to 23m in height for the expansion of the production line. The plant kept producing during construction and the production process could not be interupted. First the building was raised before the existing roof was taken off.

Static calculations, manage tendering process, steel construction drawings

Contact: Mr. Stefan Gorgs 1.1 m € (Constr.) mid 2006

Zellstoff Stendal GmbH Extension of the boiler building

To increase their pulp production capacity the Zellstoff Stendal company needed to install two more boilers. Therefore the boiler building (built in 2003) had to be extended to accommodate the two additional boilers. In the original design (completed by our office) the extension of the building was already concidered and the foundations for the extension were built in 2003. The steel structure had to be erected free-standing, seperate from the building. The new gable wall had to be built on pile foundations to avoid differential settlement.

General design: application process for building permit, construction planning, structural design incl. formwork and reinforcement drawings, steel construction drawings

Contact: Mr. Wolfgang Schubert (metso) 3.2 m € end 2005

DSD Industrieanlagen GmbH Upgrade of the CHP Wuppertal-Barmen, Stadtwerke Wuppertal, Germany

The CHP (combined heat and power station) was modified in the area around a former coal boiler. Therefore two gas turbines for electric power generation with heat recovery were installed. The two kettles for heat recovery have chimneys that are 60m high. Kettles and chimneys were placed in a new building infront of the existing building.

General planning: application process for building permit, construction planning, structural design incl. formwork and reinforcement drawings, steel construction drawings.

Contact: Mr. Eberhard Kerfs (DSD) 4.3 m € end 2005





Completion

Deutsche Solvay Werke GmbH Expansion of the PVC production plant

The existing PVC plant had to be extended. It was necessary to obtain the production line connected to the existing plant units.

As built drawings, concept of reconstruction and structural design

Contact: Mr. Meier (Solvay) 3.6 m € 2005

Zellstoff Stendal GmbH Erection of the boiler building (# 411)

As a part of the new pulp production plant, the boiler building (# 411) was planned and constructed by our office.

General design: auditable static calculations, construction design, formwork and reinforcement drawings, steel construction drawings

Contact: Mr. Wolfgang Schubert (metso) 10.4 m € end 2004

NIAG Niederrheinische Verkehrsbetriebe AG Moers, Germany Expansion of the railcar repair shop

Expansion of the railcar repair shop with erection of a new crew building and extension of the railway sidings. To reach higher efficiency, the existing railcar repair shop was extended by two rail tracks for inspection and repair work.

General design: landscaping, rail tracks, technical equipment, building design and construction planning, structural design incl. formwork and reinforcement drawings, steel construction drawings, manage tendering process, construction supervision, accounting control

Contact: Mr. Thomas Scherbarth 2 m € early 2004

Kronospan Sandebeck Reconstruction of the chip treatment plant in Sandebeck, Germany

As a part of the modernization of the production plant for chipboards, the chip treatment facility was extended and reconstructed.

Structural design incl. steel construction drawings

Contact: Mr. Guenther Baier 3.8 m € early 2004





Completion

Hochtief Building AG Construction design of a production plant for straw fibreboards

This plant was erected to produce and process LDF-, MDFand HDF-straw fibreboards, in Stassfurt, Germany.

General design including traffic connections, designs for the production plant and administration building, static precalculations and costing

Contact: Mr. Wiechmann, (Hochtief Building AG Bremen)

32 m€

design interruption since 2001

Varioboard GmbH Erection of a production plant for wood fibreboards

This plant was erected to produce MDF-fibreboards, in Magdeburg, Germany.

General design: managing application process for building permit within the scope of application for production permit, static calculations, construction drawings, managing tendering process and allocations of contracts, construction supervision

Contact: Mr. Wilhelm Taubert

24.5 m€

Febr. 2001

Zukunft GmbH

Erection of a warehouse and an administration building with exhibition space

The two-bayed warehouse with two 25t overhead travelling cranes is used for repairwork and storage of large machines.

General design: structural design, managing application process for building permit, static calculations, construction drawings, managing tendering process and allocations of contracts, construction supervision

Contact: Mr. Adnan Uczak 3.7 m €

€ Sept. 2000

Holz Dammers Moers

Addition of storeys and expanison of an administration building incl. a construction over a truck-thoroughfare

General design: structural design, managing application process for building permit, static calculations, construction drawings, managing tendering process and allocations of contracts, construction supervision

Contact: Mr. Arnold Dammers

1.5 m €

June 1999